Inspire Instrument Quick Start

Leica AT9XX

v.1.2.208.0 or higher

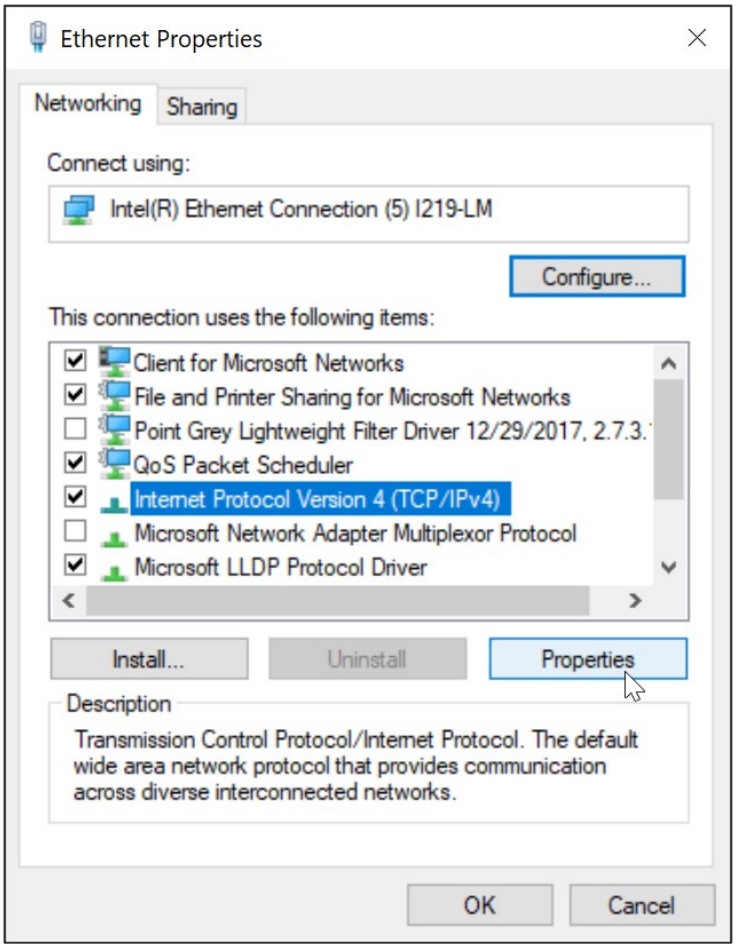
Contents

Initial Configuration and Network Connection

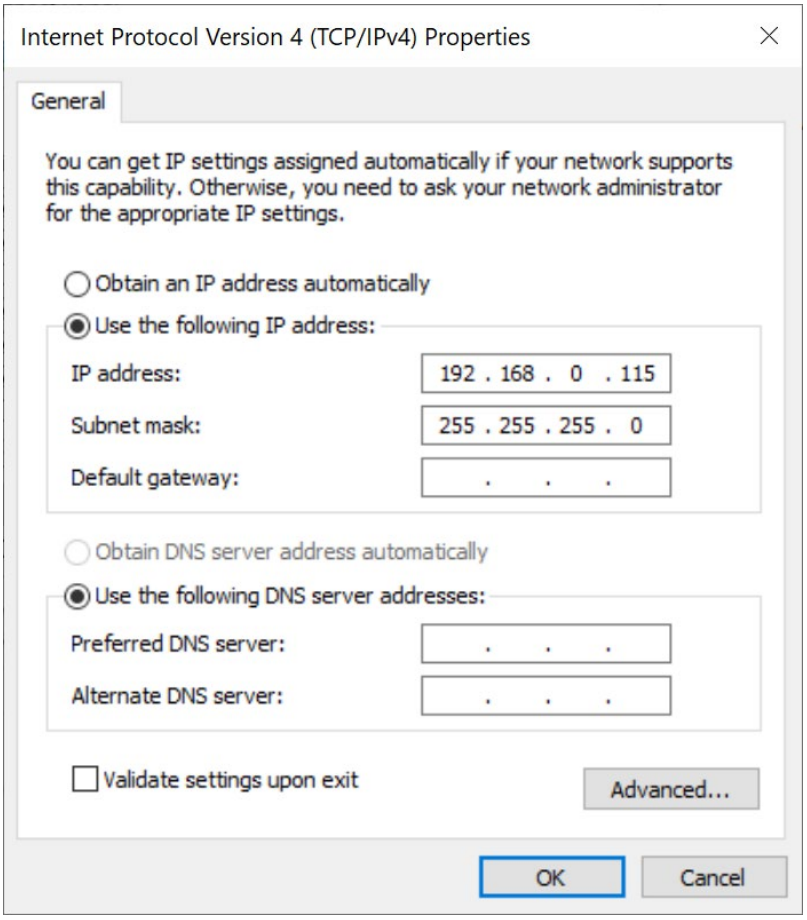
Expected time to configure: 30 minutes to 1 hour.

1. Please navigate to Home | Hexagon Manufacturing Intelligence to download the latest software for the AT9xx needed for the initial configuration. For this quick start guide, we will be using Leica Metrology Foundation or LMF v.1.8.0.2250 but there are different versions available.

2. In the Windows search bar, type **Ethernet Settings** and then select **Change Adaptor Options**, right click on your **Ethernet Connection,** and choose properties. Inside this dialog, select Internet Protocol Version 4 (TCP/IPv4) and select properties as shown below:



3. Inside the properties, change the **IP Address** to 192.168.0.XXX (2-250), which is the default for the Laser Trackers and the subnet mask to 255.255.255.0. If you defined your own **IP Address**, you would enter the number that was created inside of Tracker pilot. Now select **OK** to confirm:



4. Now we can connect to **Inspire** through LMF which has already been installed from Inspire. If you need to perform compensations, change your IP address, or update your firmware, that can be done inside of Tracker Pilot.

5. Please follow the steps below to access the Laser Tracker System Software:

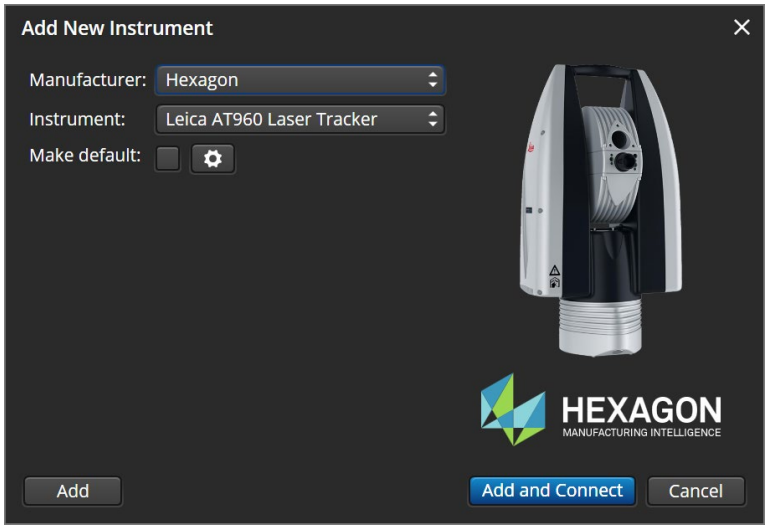
   a. Open a **Web Browser** (Chrome, Internet Explorer, etc.) on the application PC

   b. Type the “TRACKER IP” (ex.192.168.0.1) into the **Address Bar** and hit **Enter**

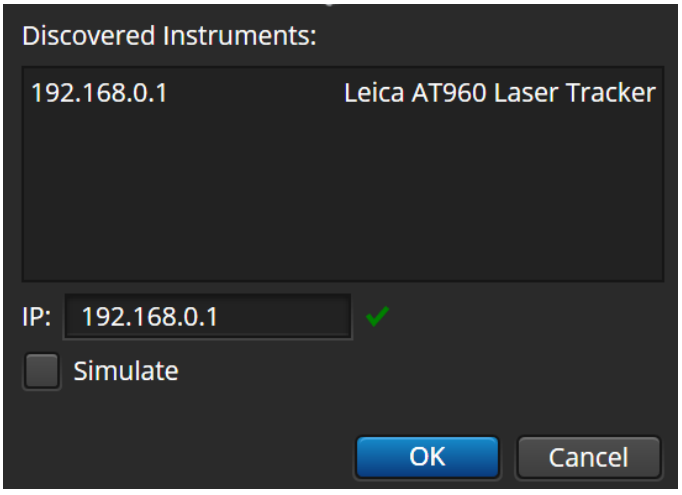
   c. Explore this screen and download the documentation as needed (Tracker Pilot, User Manual, etc.)

Common Workflows

1. Open **Inspire** > Instrument Tab > Add New Instrument and then select your desired instrument below:

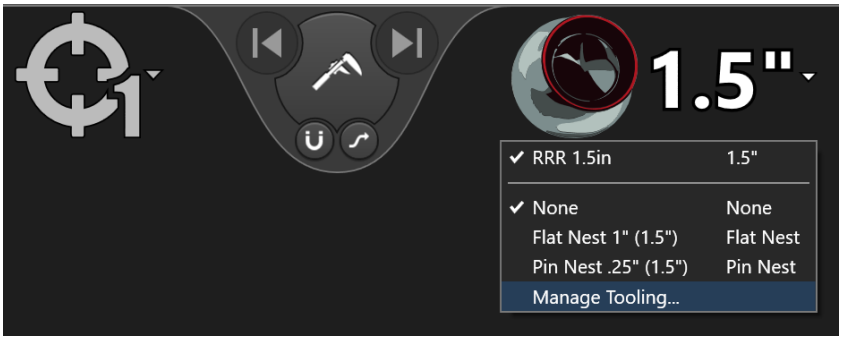


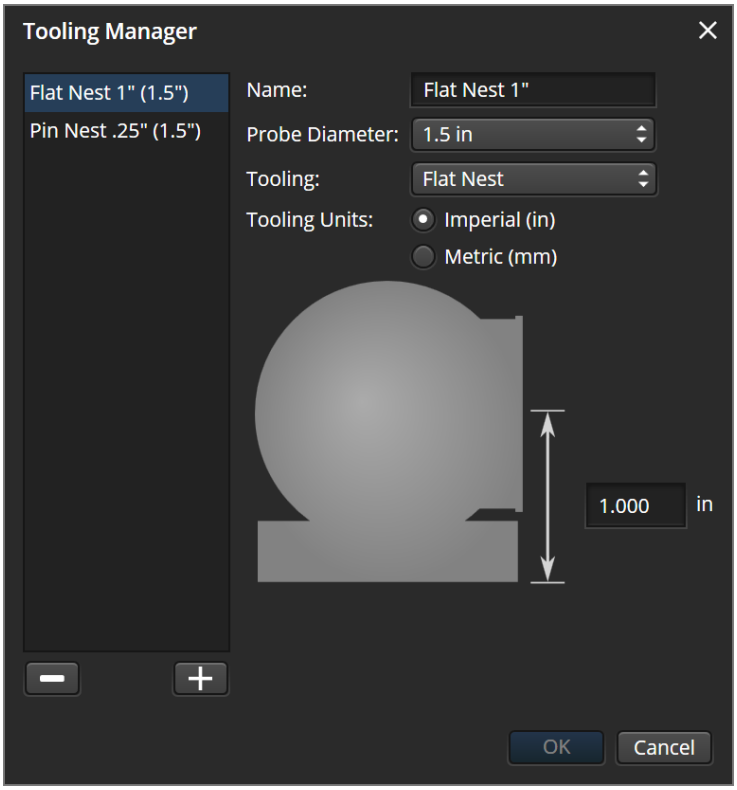
2. Next click on the  to verify your IP address is correct. If you have a  this means you have entered in the wrong IP address and if you have a  , that means we have successfully pinged the Laser Tracker. You will also see your device in the Discovered Instruments as shown below:



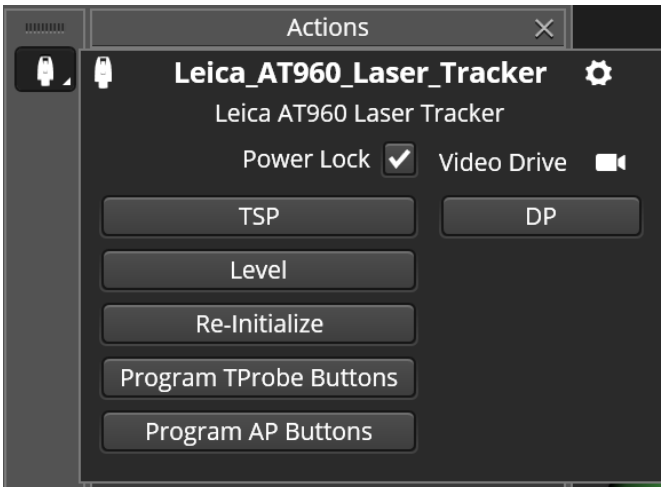
3. Now press **OK** to accept the configuration and then select **Add and Connect**.

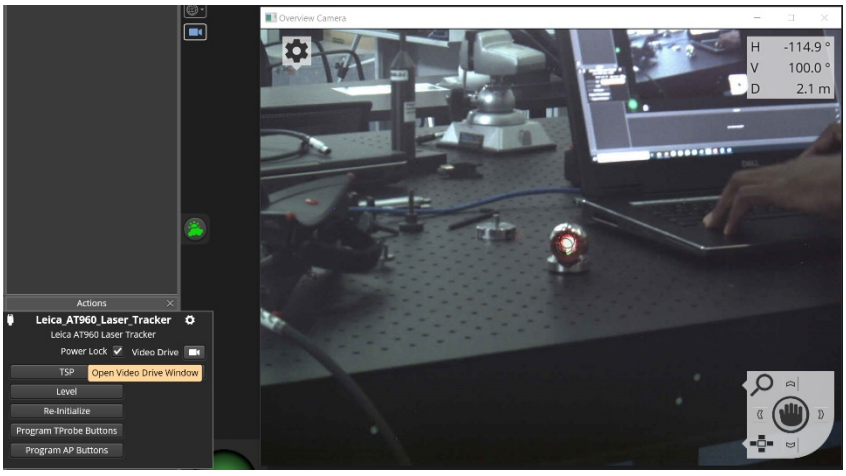
4. Once you are connected, you will see a Measurement HUD appear in the main graphical view and if you click on the **SMR**, you can add additional tooling as well:





5. On the left-hand side, we can access the instrument settings such as programmable buttons, leveling the tracker or accessing the video drive:





6. If you enable **Automation Mode ON***, this will automatically confirm you want to change from the SMR to T-Probe (order does not matter) without breaking the beam. Just place each object in front of the laser and it will automatically switch over inside of Inspire.

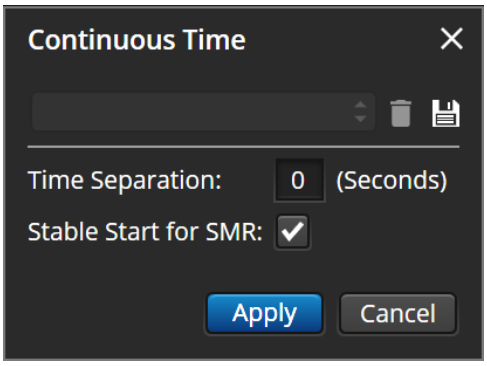
7. If you enable **Automation Mode OFF**, this will prompt you to physically break the beam to confirm you want to switch from the SMR to T-Probe (order does not matter). Just place each object in front of the laser and it will prompt you to break the beam to switch over inside of Inspire.

This will need to be set again after closing Inspire as they do not persist.

Acquisition Modes and Tooling

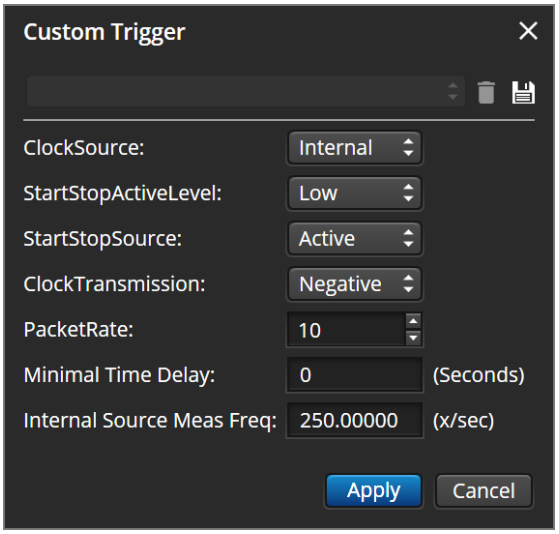
Spherically Mounted Retroflector (SMR)

- This probe/tooling can be used in **Stationary**, **Stable Points**, or **Continuous Time/Distance** acquisition mode. Please click on the  to access additional



Custom Trigger

- This is a highly customizable trigger that can be used to acquire measurements. Please click on the  to access additional options.



NOTE:
If you are using a **Touch Trigger**, it involves a special input port on the controller, a tiny LEMO connector. Then you can connect something as simple as a button, or as involved as **T-MAC** to trigger measurements.

T-Probe

- This probe/tooling can be used in **Stationary**, **Stable Points**, or **Continuous Time/Distance** acquisition mode. Please place the laser in front of the AT9XX and follow the prompts on the screen.

Index and Resources

1. Leica Absolute Tracker AT960 | Hexagon Manufacturing Intelligence (hexagonmi.com)
2. Laser Tracker Systems | Hexagon Manufacturing Intelligence (hexagonmi.com)
3. Home | Portable Downloads | Hexagon Manufacturing Intelligence
4. Accessories for Laser Tracker Systems | Hexagon Manufacturing Intelligence (hexagonmi.com)
5. Laser Tracker Catalog (shop.hexagonmi.com)